

Applicant : Choi et al.
Serial No. : 09/888,114
Filed : June 22, 2001

Page: 2

5. (Amended) The pharmaceutical composition of claim 2 wherein the cephalosporin is selected from the group consisting of ceftiofur, cefipime, cefixime, cefoperazone, cefotaxime, cefpodoxime, ceftazidime, ceftizoxime, ceftriaxone, cefpirome, cefclidin, cefmenoxime, cefozoprane, and combinations thereof.

- 12. (Reiterated) The pharmaceutical composition of claim 5 wherein the cephalosporin is ceftriaxone.
- 14. (Amended) The pharmaceutical composition of claim 2 wherein the metal cation is selected from the group consisting of calcium, magnesium, lithium, iron, copper, zinc, aluminum, manganese, chromium, cobalt, nickel, and combinations thereof.
- 15. (Amended) The pharmaceutical composition of claim 12 wherein the metal cation is calcium.
- 16. (Amended) The pharmaceutical composition of claim 12 wherein the metal cation is zinc.
- 17. (Amended) The pharmaceutical composition of claim 2 wherein the metal cation is ionically bound to the biopolymer forming a metal cation-biopolymer complex and the cephalosporin is contained within the metal cation-biopolymer complex.
- 18. (Amended) The pharmaceutical composition of claim 2 wherein the metal cation is ionically bound to the cephalosporin forming a metal cation-cephalosporin complex and the metal cation-cephalosporin complex is contained within the biopolymer.
- 19. (Amended) The pharmaceutical composition of claim 2 wherein the metal cation is complexed to the cephalosporin and the metal cation is further ionically bound to the biopolymer forming a cephalosporin-metal cation-biopolymer bridge.





Applicant : Choi et al.
Serial No. : 09/888,114
Filed : June 22, 2001

Page: 3

20. (Amended) The pharmaceutical composition of claim 2 wherein the biopolymer is carrageenan or pectin.



- 21. (Amended) The pharmaceutical composition of claim 15 or 20 wherein the carrageenan has a calcium content of less than about 0.4% by weight.
- 22. (Amended) The pharmaceutical composition of claim 2 wherein the biopolymer is carrageenan, the cephalosporin is ceftriaxone, the metal cation is calcium and the absorption enhancer is a non-ionic surfactant.